Datasheet for ABIN5021886

FCR1

5 Images

Go to Product page

Overview

Quantity:	1 mg

Product Details

Purpose:	FRET ratiometric fluorescence-based redox sensor
Chemical Name:	7-(Diethylamino)-N-((1r,4r)-4-(2-(10-ethyl-2,4-dioxo-4,10-dihydrobenzo[g]pteridin-3(2H)-yl)acetamido)cyclohexyl)-2-oxo-2H-chromene-3-carboxamide (FCR1)
Formula:	C34H37N7O6
Solubility:	Soluble in DMSO

Target Details

Molecular Weight:	639

Application Details

Comment:	Source: Synthetic. Appearance: Orange Solid
Restrictions:	For Research Use only

Handling

Format:	Solid
Precaution of Use:	Classification: Caution: Substance not yet fully tested. Safety Phrases: S22 - Do not breathe dust S24/25 - Avoid contact with skin and eyes S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Handling

Handling Advice:	Classification: Caution: Substance not yet fully tested. Safety Phrases: S22 - Do not breathe dust S24/25 - Avoid contact with skin and eyes S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
Storage:	-20 °C

Images

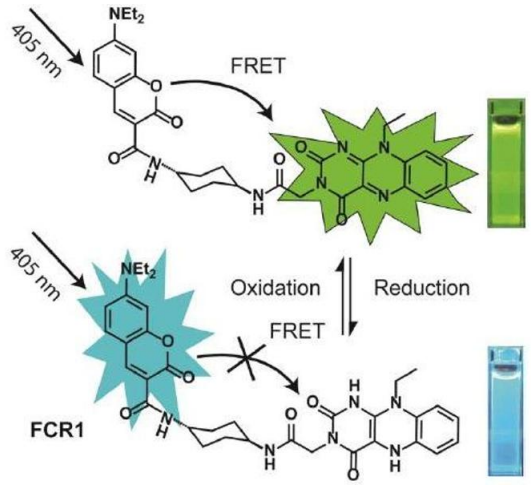
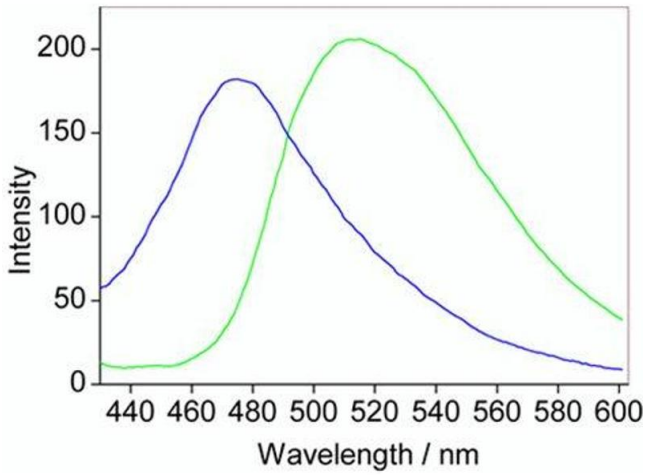
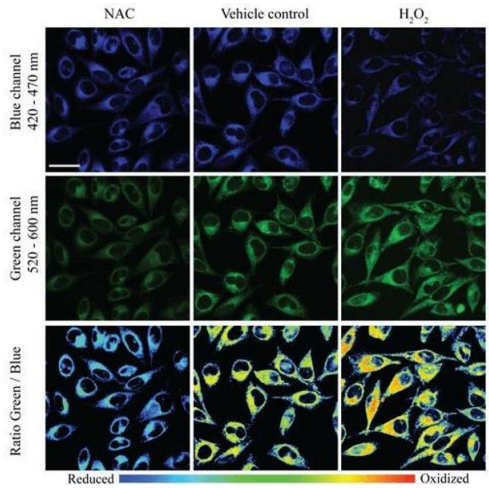


Image 1. Chemical structure and design of FCR1 , showing FRET processes in oxidised form. Inset: photographs of cuvettes of FCR1 in oxidised and reduced forms under 365 nm excitation. Images used with permission from Kaur A, Haghighatbin MA, Hogan CF, New EJ. Chem Commun (Camb). 2015 Jun 16;51(52):10510-3.



Immunofluorescence

Image 2. Fluorescence behavior of FCR1 in the oxidized (green) and reduced (blue) forms, using 10 µM. Excitation: 405 nm. Reduced Emission: 475 nm. Oxidized Emission: 520 nm. Images used with permission from Kaur A, Haghighatbin MA, Hogan CF, New EJ. Chem Commun (Camb). 2015 Jun 16;51(52):10510-3.



Immunofluorescence

Image 3. Two photon - confocal microscopy imaging of HeLa cells treated with FCR1 and (a) N-acetyl cysteine (50 µM, 30 min), (b) vehicle control and (c) H2O2 (50 µM, 30 min) in blue and green channels. The pseudo colour ratio images indicate the ratio of emission intensity in the green channel to blue channel. Scale bar represents 20 µm. Images used with permission from Kaur A, Haghighatbin MA, Hogan CF, New EJ. Chem Commun (Camb). 2015 Jun

16;51(52):10510-3.

Please check the product details page for more images. Overall 5 images are available for ABIN5021886.

